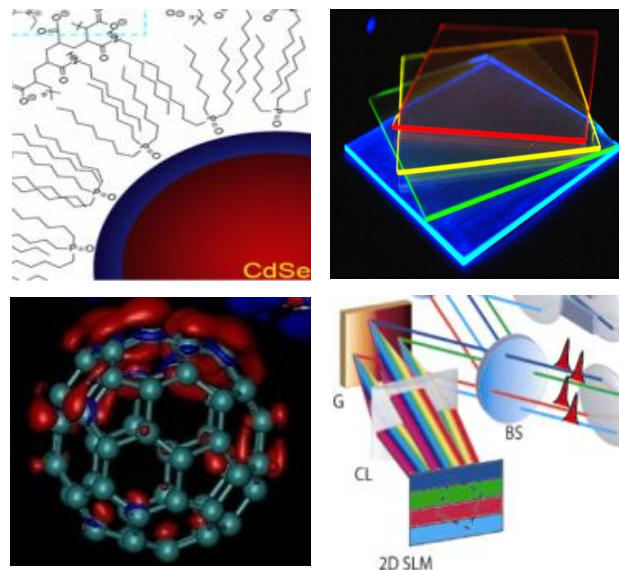




Electronics vs Excitonics

Excitons are characteristic of low-cost materials for solar cells and solid state lighting. We seek to supersede traditional electronics with devices that use excitons to mediate the flow of energy.



RESEARCH PLAN AND DIRECTIONS

We address the two grand challenges in excitonics:

- (1) Understand, control and exploit exciton transport
- (2) Understand and exploit the energy conversion processes between excitons, electrons, and photons.

Our advances will be applied to low-cost solar cells and solid state lighting.